



FIG.1

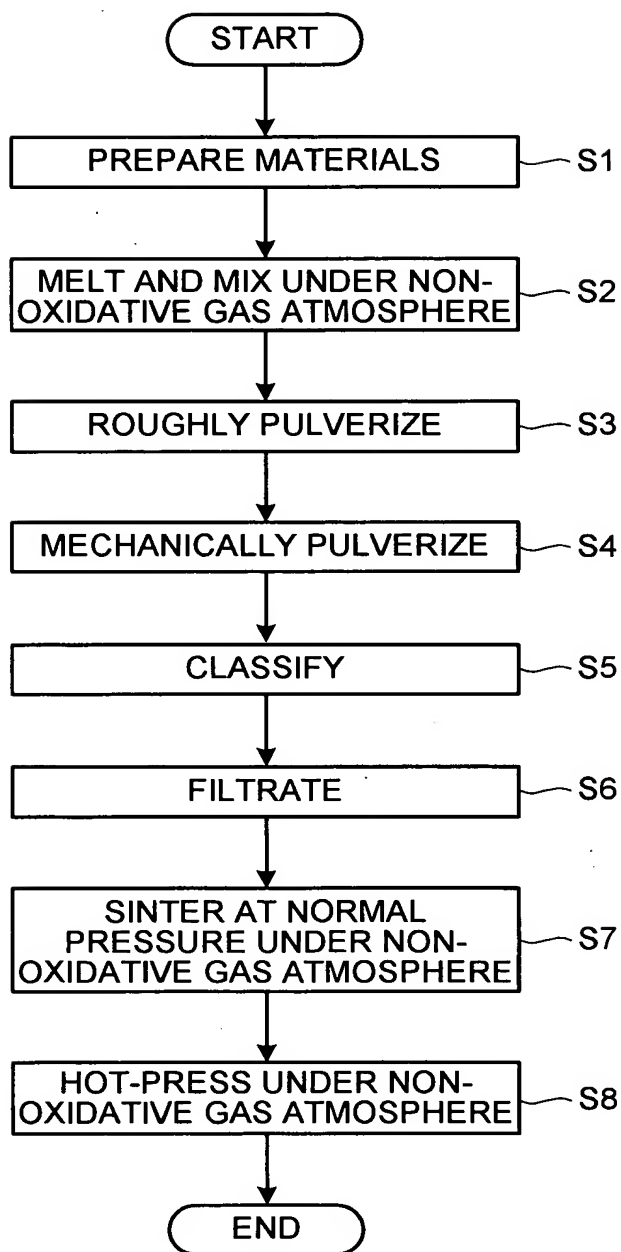


FIG.2

	SAMPLE NO.	HALF-HEIGHT WIDTH [deg.]	OXYGEN CONCENTRATION [wt%]	CARRIER DENSITY n [x10 ¹⁹ cm ⁻³]	MOBILITY μ [cm ² ·V ⁻¹ ·s ⁻¹]
EXAMPLE	#1	0.0369	0.019	2.26	221
	#2	0.0484	0.022	2.48	221
	#3	0.0544	0.037	3.42	214
	#4	0.0605	0.021	2.02	223
	#5	0.0562	0.017	2.29	214
COMPARATIVE EXAMPLE	#6	0.0904	0.018	2.20	206
	#7	0.0750	0.024	2.17	206
	#8	0.1025	0.035	2.59	204
	#9	0.1264	0.040	2.96	190
	#10	0.0762	0.022	2.09	220

FIG.3

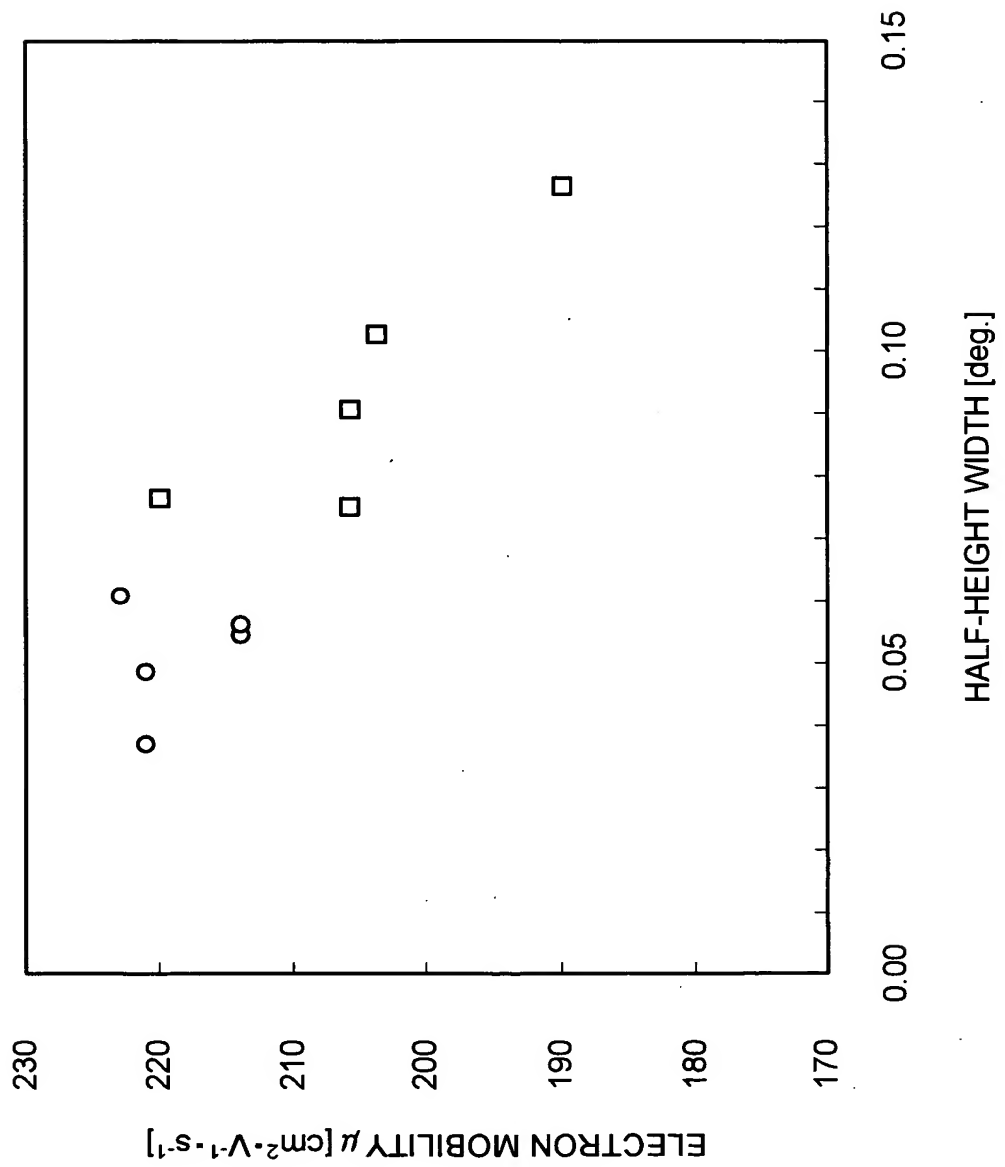


FIG.4

	SAMPLE NO.	HALF-HEIGHT WIDTH [deg.]	SEEBECK COEFFICIENT α $\times 10^{-4}[\text{V} \cdot \text{K}^{-1}]$	RESISTIVITY $\times 10^{-5}[\Omega \cdot \text{m}]$	POWER FACTOR PF $\times 10^{-3}[\text{W} \cdot \text{m}^{-1} \cdot \text{K}^{-2}]$	THERMAL CONDUCTIVITY κ $[\text{W} \cdot \text{m}^{-1} \cdot \text{K}^{-1}]$	FIGURE OF MERIT Z $\times 10^{-3}[\text{K}^{-1}]$
Example	#1	0.0369	-2.27	1.251	4.12	1.34	3.07
	#2	0.0484	-2.11	1.140	3.90	1.39	2.81
	#3	0.0544	-1.93	0.854	4.36	1.51	2.89
	#4	0.0605	-2.30	1.387	3.81	1.35	2.82
	#5	0.0562	-2.23	1.275	3.91	1.33	2.94
COMPARATIVE EXAMPLE	#6	0.0904	-2.18	1.379	3.45	1.40	2.46
	#7	0.0750	-2.17	1.398	3.37	1.38	2.44
	#8	0.1025	-2.06	1.183	3.59	1.34	2.68
	#9	0.1264	-1.84	1.111	3.05	1.37	2.22
	#10	0.0762	-2.21	1.359	3.60	1.37	2.63

FIG.5

